



TOWN OF NATICK MASSACHUSETTS

JEREMY T. MARSETTE, P.E.
DIRECTOR

WILLIAM E. MCDOWELL, P.E.
TOWN ENGINEER

TO: Natick Board of Selectmen
Melissa Malone, Town Administrator
Bill Chenard, Deputy Town Administrator – Operations
Jeremy Marsette, P.E. Director, Natick Public Works

FROM: Bill McDowell, Town Engineer

DATE: December 7, 2018

SUBJECT: South Main Street Reconstruction – Engineering Design Contract Amendment

This memorandum is to summarize a meeting between the Town and Green International Affiliates, Inc. on December 6th.

The Town re-iterated its understanding that the final design as represented in the public meetings on November 28, 2017 and March 28, 2018 and as voted by the Selectmen, acting as Street Commissioners on April 17, 2018 did not include relocating curb lines and guard rails in the portion of South Main Street between the Sherborn Town Line and West Street, referred to as Segment 1 during the presentations. The final design would not require wetlands alteration or wetlands replication design work.

The Town further directed Green International to perform the additional design work to prepare the final construction plans and specifications to present the sidewalk on the easterly side of South Main Street between West Street and Hunter's Lane as an Add/Alternate for bidding purposes.

The Town understands that their decision to re-locate curbing along the South Main Street corridor, to create ten and one half foot wide travel lanes and four foot wide shoulder widths, relocating utility poles to accommodate ADA requirements for accessibility and repairing sidewalk surface and driveway aprons, all within the existing right of way, in conformance with the selected design

alternative, will require additional design work in excess of the scope of the original contract with Green International executed in January of 2017.

In order to accommodate the additional design required for the approved roadway section and the Add/Alternate design for the extension of sidewalk from Hunter's Lane to West Str, it is necessary to amend the contract with Green International in the amount of \$ 81,224.63. Green International is currently revising their existing scope of work to include specific tasks required to complete the final design and the level of effort anticipated by these additional tasks and will forward this schedule to the Engineering Division on Monday December 10th. This information will be forwarded to the Board for their review. It should be noted that this is a not to exceed contract and Green International will only bill for actual work performed. This is not a lump sum contract.

The Engineering Division respectfully recommends that the Board of Selectmen vote to amend the Contract for Consulting Engineering Services for Roadway and Drainage Improvements To South Main Street in the amount of \$ **81,224.63** for a total amount Not To Exceed \$ **344,276.73**.



GREEN INTERNATIONAL AFFILIATES, INC.
239 LITTLETON ROAD, SUITE 3 WESTFORD, MA 01886
T: (978) 923-0400 | F: (978) 399-0033 | WWW.GREENINTL.COM

Amendment for Additional Engineering Services

ATTACHMENT A

Engineer's Person-Hour Estimate and Fee Schedule

Town of Natick Department of Public Works
Roadway and Drainage Improvements to South Main Street

TASK No.	TASK DESCRIPTION	PROJECT MANAGER \$	PROJECT ENGINEER \$	SURVEYOR PLS \$	SURVEYOR \$	CIVIL ENGINEER \$	CAD/GIS OPERATOR \$	SURVEYOR \$	TOTAL LABOR	TOTAL LABOR	Travel Mileage	Printing	Mailing	Misc.	TOTAL EXPENSES
Task 1.0 Startup/Data Collection															
1.1	Startup Meeting	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1.2	Subsurface Exploration (lab analysis of test pits and performing ledge)	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1.3	Accident Data	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1.4	Field Reconnaissance	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
1.5	Traffic Data	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Task 1.0 Startup / Data Collection										0 \$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Task 2.0 Field Survey and Base Plans															
2.1	Compile Right-of-Way	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2.2	Utility Coordination	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2.3	Survey Coordination and Controls	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2.4	Complete Field Survey	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2.5	Cross Section	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
2.6	Base Plan	1	1	1	0	16	4	0	22	\$2,150.00	\$46.33	\$0.00	\$0.00	\$0.00	\$46.33
Total Task 2.0 Field Survey and Base Plans										22 \$	\$46.33	\$0.00	\$0.00	\$0.00	\$46.33
Task 3.0 Conceptual Design															
3.1	Alternatives Analysis	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.2	Prepare and Submit Memorandum with Recommendations	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
3.3	Attend Meeting with the Town	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Task 3.0 Conceptual Design										0 \$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Task 4.0 Preliminary Roadway															
4.1	Evaluate Pavement Cores/Pavement Design	0	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4.2	Apply Typical Section	0	2	0	0	4	8	0	14	\$1,320.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4.3	Horizontal Design	1	1	0	0	2	4	0	8	\$820.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
4.4	Vertical Design	0	0	0	0	2	2	0	4	\$360.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Task 4.0 Preliminary Roadway										26 \$	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Task 5.0 Preliminary Drainage/Utility															
5.1	Drainage Layout and Analysis	4	16	0	0	24	16	0	60	\$6,360.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5.2	BMP Determination and Meet with Natick ConCom	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5.3	Utility Coordination	18	24	0	0	20	16	0	78	\$9,260.00	\$185.30	\$0.00	\$0.00	\$0.00	\$185.30
Total Task 5.0 Preliminary Drainage/Utility										138	\$15,620.00	\$185.30	\$0.00	\$0.00	\$185.30



GREEN INTERNATIONAL AFFILIATES, INC.

239 LITTLETON ROAD, SUITE 3 WESTFORD, MA 01886

T: (978) 923-0400 | F: (978) 399-0033 | WWW.GREENINTL.COM

TASK No.	TASK DESCRIPTION	PROJECT MANAGER \$	PROJECT ENGINEER \$	SURVEYOR PLS \$	SURVEYOR \$	CIVIL ENGINEER \$	CAD/IGS OPERATOR \$	SURVEYOR 80.00 \$	TOTAL LABOR	TRAVEL Mileage	Printing	Mailing	Misc.	TOTAL EXPENSES
Task 6.0	Preliminary Design Submittal													
6.1	Prepare and Submit Plans	20	60	0	0	101	182	0	363	\$0.00	\$156.00	\$0.00	\$0.00	\$156.00
	Title Sheet/Index of Sheets (1)	0	0	0	0	0	0	0	0					
	Plan Symbols and Notes Sheet (1)	0	0	0	0	0	0	0	0					
	Key Plan (1)	0	0	0	0	0	0	0	0					
	Base Bid Typical Sections (3)	0	1	0	0	1	2	0	4					
	Base Bid Construction Plans @ 1"=20' (14)	2	8	0	0	10	20	0	40					
	Base Bid Construction Profile @ 1"=20' (14)	0	0	0	0	2	2	0	4					
	Base Bid Drainage and Utility Plan @ 1"=20' (14)	2	4	0	0	4	4	0	14					
	Base Bid Pavement Marking and Signing Plan @ 1"=40' (7)	1	2	0	0	4	4	0	11					
	Base Bid Wetland Replication Plans and Details (up to 5 sheets)	0	0	0	0	0	0	0	0					
	Base Bid Cross Section Sheets (70)	8	24	0	0	56	108	0	196					
	Acid Alternate Typical Sections (1)	0	1	0	0	2	4	0	7					
	Acid Alternate Construction Plans @ 1"=20' (5)	2	6	0	0	8	12	0	28					
	Acid Alternate Pavement Marking and Signing Plan @ 1"=40' (assu)	1	2	0	0	2	2	0	7					
	Acid Alternate Cross Section Sheets (assume included on Base Bid)	4	12	0	0	12	24	0	52					
6.2	Prepare and Submit Estimate	1	4	0	0	8	12	0	25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
6.3	Attend Meeting with the Town	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Total Task 6.0 Preliminary Design Submittal	21	64	0	0	109	194	0	388	\$0.00	\$156.00	\$0.00	\$0.00	\$156.00
Task 7.0	Permitting													
7.2a	Wetland Replication as part of NOI	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7.2b	Calculate BFE and Compensatory Flood Storage as part of NOI	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7.3	Prepare and Submit MWRA 8(m) Permit Application	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
7.4	Other Permits	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Total Task 7.0 Permitting	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Task 8.0	Project Meetings and Public Meeting													
8.1	Prepare for and Attend up to Four Project Meetings with the Town	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
8.2	Prepare for and Attend up to One Public Meeting	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
	Total Task 8.0 Project Meetings and Public Meeting	0	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00



GREEN INTERNATIONAL AFFILIATES, INC.

239 LITTLETON ROAD, SUITE 3 WESTFORD, MA 01886

T: (978) 923-0400 | F: (978) 399-0033 | WWW.GREENINTL.COM

TASK No.	TASK DESCRIPTION	PROJECT MANAGER	PROJECT ENGINEER	SURVEYOR PLS	CIVIL ENGINEER	CAD/IS OPERATOR	SURVEYOR	TOTAL LABOR	TOTAL LABOR	Expenses				TOTAL EXPENSES
										Travel Mileage	Printing	Mailing	Misc.	
Task 9.0	Final Design													
9.1	Final Roadway Design	1	1	0	4	0	0	6	\$670.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9.2	Finalize Drainage	2	2	0	8	0	0	12	\$1,340.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9.3 & 9.5	Prepare and Submit Final Plans	11	42	0	75	117	0	245	\$24,290.00	\$0.00	\$116.00	\$0.00	\$0.00	\$116.00
	Title Sheet/Index of Sheets (1)	0	0	0	0	0	0	0						
	Plan Symbols and Notes Sheet (1)	0	0	0	0	0	0	0						
	Key Plan (1)	0	0	0	0	0	0	0						
	Base Bid Typical Sections (4)	0	1	0	1	1	0	3						
	Base Bid Construction Plans @ 1"=20' (14)	1	2	0	8	16	0	27						
	Base Bid Construction Profile @ 1"=20' (14)	0	0	0	0	0	0	0						
	Base Bid Drainage and Utility Plan @ 1"=20' (14)	1	4	0	4	8	0	17						
	Base Bid Curb Tie and Layout Plan @ 1"=20' (14)	1	2	0	2	2	0	7						
	Base Bid Pavement Marking and Signing Plan @ 1"=40' (7)	1	2	0	4	4	0	11						
	Base Bid Traffic Sign Summary Sheet (1)	0	0	0	1	1	0	2						
	Base Bid Wetland Replication Plans and Details (up to 5 sheets)	0	0	0	0	0	0	0						
	Base Bid Traffic Management Plan (3)	0	0	0	0	0	0	0						
	Base Bid Construction Details (4)	0	2	0	2	4	0	8						
	Base Bid Driveway and Wheelchair Ramp Details (2)	0	0	0	0	0	0	0						
	Base Bid Cross Section Sheets (77)	4	16	0	32	48	0	100						
	Add Alternate Typical Sections (1)	0	1	0	1	2	0	4						
	Add Alternate Construction Plans @ 1"=20' (5)	1	4	0	8	12	0	25						
	Add Alternate Pavement Marking and Signing Plan @ 1"=40' (3)	0	1	0	1	1	0	3						
	Add Alternate Construction Details (1)	0	1	0	1	2	0	4						
	Add Alternate Driveway and Wheelchair Ramp Details (1)	1	2	0	2	4	0	9						
	Add Alternate Cross Section Sheets (21)	1	4	0	8	12	0	25						
9.4	Prepare and Submit Special Provisions	0	2	0	12	0	0	14	\$1,400.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9.6	Prepare and Submit Final Cost Estimate with Quantities	0	4	0	4	8	0	16	\$1,580.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
9.7	Submit Final Plans and Meet with Town	0	0	0	0	0	0	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Task 9.0 Final Design									\$29,280.00	\$0.00	\$116.00	\$0.00	\$0.00	\$116.00
Task 10.0	Prepare Contract Bid Documents													
10.1	Address Final Plan Comments	1	4	0	8	8	0	21	\$2,120.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10.2	Prepare and Print Contract Documents (Up to 15 Copies)	0	0	0	0	0	0	0	\$0.00	\$0.00	\$544.00	\$0.00	\$0.00	\$544.00
10.3	Bid Phase Support including attending bid opening	1	2	0	4	2	0	9	\$970.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Task 10.0 Prepare Contract Bid Documents									\$3,090.00	\$0.00	\$544.00	\$0.00	\$0.00	\$544.00
TOTALS FOR ALL TASKS														
									\$91,165.00	\$231.63	\$816.00	\$-	\$-	\$1,047.63
TOTAL LABOR COST \$									\$91,165.00					
DIRECT EXPENSES \$									\$1,047.63					
TOTAL COST FOR DESIGN AND PERMITTING FOR ADDITIONAL WORK \$ 92,212.63														
SUBTRACT FEE ASSOCIATED WITH REMOVAL OF SCOPE RELATED TO BENNETT AND JOHNSON SCHOOL (SEE ATTACHED)									\$ (10,988.00)					
TOTAL AMENDMENT REQUEST \$									\$ 81,224.63					
Cost includes work for Revised A11.3 and add Alternate only. Does not include widening of Segment 1 or the associated permitting														